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1 [Architecting families of software systems with process algebras](#)



Marco Bernardo, Paolo Ciancarini, Lorenzo Donatiello

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Software components can give rise to several kinds of architectural mismatches when assembled together in order to form a software system. A formal description of the architecture of the resulting component-based software system may help to detect such architectural mismatches and to single out the components that cause the mismatches. In this article, we concentrate on deadlock-related architectural mismatches arising from three different causes that we identify: incompatibility between two com ...

**Keywords:** Architectural mismatch detection, architectural styles, process algebras, software architectures

2 [Modeling and Analysis of Concerns in Software \(MACS\): Separation of concerns in software product line engineering](#)



Mazen Saleh, Hassan Gomaa

May 2005